

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 2, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 80	
Location 990'N, 1650'E, Section 10, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool: Basin	
Casing: Diameter 5.500	Set At: Feet 6749	Tubing: Diameter 2.375	Set At: Feet 6518
Pay Zone: From 6421	To 6538	Total Depth: 6749	Shut In 7-24-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2025	+ 12 = PSIA 2037	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2067	+ 12 = PSIA 2079	
Flowing Pressure: P PSIG 366	+ 12 = PSIA 378		Working Pressure: P _w PSIG 882	+ 12 = PSIA 894	
Temperature: T = 84 °F	F _t = .9777	n = .75	F _{pv} (From Tables) 1.033	Gravity .650	F _g = .9608

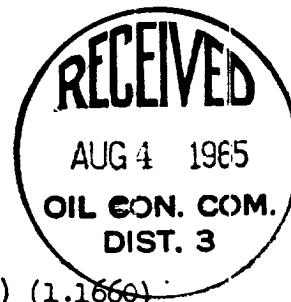
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365) (378) (.9777) (.9608) (1.033) = 4536 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{4,322,241}{3,523,005} \right)^n = (4536) (1.2268)^{.75} = (4536) (1.1660)$$

$$Aof = 5,289 \text{ MCF/D}$$



NOTE: Blew light spray of hydrocarbon throughout test.

TESTED BY R. F. Headrick
CHECKED BY W. D. Dawson
~~W. D. Dawson~~

Lewis D. Galloway
L. D. Galloway